CONTENTS OF VOLUME 14

Number 1

Editorial	1
Structures of Water-Soluble α-D-Glucans Synthesized from Sucrose by Glucosyltransferases Isolated from <i>Streptococcus sobrinus</i> Culture Filtrates NORMAN W. H. CHEETHAM, GWEN J. WALKER, BARBARA J. PEARCE, EVA FIALA-BEER & CATHERINE TAYLOR (Australia)	3
Conformational Aspects of Xanthan–Galactomannan Gelation. Further Evidence from Optical-Rotation Studies	17
Influence of the Acetyl Substituent on the Interaction of Xanthan with Plant Polysaccharides—I. Xanthan-Locust Bean Gum Systems	29
Synthesis, Structure and Antiviral Activity of Sulfates of Cellulose and its Branched Derivatives I. YAMAMOTO, K. TAKAYAMA, K. HONMA, T. GONDA, K. MATSUZAKI, K. HATANAKA, T. URYU, O. YOSHIDA, H. NAKASHIMA, N. YAMAMOTO, Y. KANEKO & T. MIMURA (Japan)	53
Structure of the Cell Wall Mannans of the Pathogenic Yeasts of Candida Species— A Complex Insight G. KOGAN, V. PAVLIAK, J. ŠANDULA & L. MASLER (Czechoslovakia)	65
A Mechanism for Lignification in Plants	77
Summaries of UK Patent Applications	89
Bibliography on Carbohydrate Polymers	91
Book Reviews	111
Carbohydrate Polymers (14) (1991)—© 1991 Elsevier Science Publishers Ltd, Eng Printed in Great Britain	land.

CONTENTS OF VOLUME 14

Number 1

Editorial	1
Structures of Water-Soluble α-D-Glucans Synthesized from Sucrose by Glucosyltransferases Isolated from <i>Streptococcus sobrinus</i> Culture Filtrates NORMAN W. H. CHEETHAM, GWEN J. WALKER, BARBARA J. PEARCE, EVA FIALA-BEER & CATHERINE TAYLOR (Australia)	3
Conformational Aspects of Xanthan–Galactomannan Gelation. Further Evidence from Optical-Rotation Studies	17
Influence of the Acetyl Substituent on the Interaction of Xanthan with Plant Polysaccharides—I. Xanthan-Locust Bean Gum Systems	29
Synthesis, Structure and Antiviral Activity of Sulfates of Cellulose and its Branched Derivatives I. YAMAMOTO, K. TAKAYAMA, K. HONMA, T. GONDA, K. MATSUZAKI, K. HATANAKA, T. URYU, O. YOSHIDA, H. NAKASHIMA, N. YAMAMOTO, Y. KANEKO & T. MIMURA (Japan)	53
Structure of the Cell Wall Mannans of the Pathogenic Yeasts of Candida Species— A Complex Insight G. KOGAN, V. PAVLIAK, J. ŠANDULA & L. MASLER (Czechoslovakia)	65
A Mechanism for Lignification in Plants	77
Summaries of UK Patent Applications	89
Bibliography on Carbohydrate Polymers	91
Book Reviews	111
Carbohydrate Polymers (14) (1991)—© 1991 Elsevier Science Publishers Ltd, Eng Printed in Great Britain	land.

Number 2

Influence of the Acetyl Substituent on the Interaction of Xanthan with Plant Polysaccharides-II. Xanthan-Guar Gum Systems 115 KAROLYN P. SHATWELL, IAN W. SUTHERLAND, SIMON B. ROSS-MURPHY & IAIN C. M. DEA (UK) Influence of the Acetyl Substituent on the Interaction of Xanthan with Plant Polysaccharides—III. Xanthan-Koniac Mannan Systems 131 KAROLYN P. SHATWELL, IAN W. SUTHERLAND, SIMON B. ROSS-MURPHY & IAIN C. M. DEA (UK) Dextran Structural Details from High-Field Proton NMR Spectroscopy . . . 149 NORMAN W. H. CHEETHAM, EVA FIALA-BEER & GWEN J. WALKER (Australia) Homogeneous Alginate Gels: A Technical Approach . 159 KURT INGAR DRAGET, KJETILL ØSTGAARD & OLAV SMIDSRØD (Norway) Investigation of the Distribution of Methyl Ester Groups in Pectin by High-Field 13C NMR 179 E. WESTERLUND, P. ÅMAN, R. E. ANDERSSON & R. ANDERSSON (Sweden) 189 Dissociation of Dimerized Xanthan in Aqueous Solution . . . KIKUJI KAWAKAMI, YUKO OKABE & TAKASHI NORISUYE (Japan) Bibliography on Carbohydrate Polymers 205

Number 3

Review Papers

Book Reviews

Papers

The Estimation of Junction Zone Size from Geltime Measurements 281
SIMON B. ROSS-MURPHY (UK)

Studies on Apple Protopectin. II: Apple Cell Wall Degradation by Pure 295 C. M. G. C. RENARD, M. J. F. SEARLE VAN LEEUWEN. A. G. J. VORAGEN (The Netherlands), J.-F. THIBAULT (France) & W. PILNIK (The Netherlands) News and Views 315 Bibliography on Carbohydrate Polymers . . . 318 Book Reviews 335 Number 4 Type-specific Carbohydrate Antigens of Pathogenic Bacteria, Part 2. 339 A. J. GRIFFITHS & D. B. DAVIES (UK) X-Ray Fibre Diffraction Studies of Members of the Gellan Family of Polysaccharides 367 P. CAIRNS, M. J. MILES & V. J. MORRIS (UK) Emulsifying Behaviour of Gum Arabic. Part 1: Effect of the Nature of the Oil Phase on the Emulsion Droplet-size Distribution . 373 ERIC DICKINSON, VANDA B. GALAZKA & DOUGLAS M. W. ANDERSON (UK) Emulsifying Behaviour of Gum Arabic, Part 2, Effect of the Gum Molecular Weight 385 ERIC DICKINSON, VANDA B. GALAZKA & DOUGLAS M. W. ANDERSON (UK) Analysis of Polysaccharide-Poly(ethylene-co-acrylic acid) Composites by Fourier-Transform Infrared Spectroscopy. 393 G. F. FANTA & J. H. SALCH (USA) Rheology of Hydroxyethyl Guar Gum Derivatives 411 ROMANO LAPASIN, SABRINA PRICL & PAOLO TRACANELLI (Italy) 429 Bibliography on Carbohydrate Polymers . . . 430 Book Reviews 450

